From the INTERNATIONAL SEARCHING AUTHORITY

AKIN, GUMP, STRAUSS, HAUER & FELD, L.L.P. Attn. ROURK, Christopher J. P.O. Box 688 Dallas, TX 75313-0688 UNITED STATES OF AMERICA

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

P.O. Box 688 Dallas, TX 75313-0688 UNITED STATES OF AMERICA	(PCT Rule 44.1)
	Date of mailing (day month year) 17:06; 2003
Applicant's or agent's file reference 121744/0014	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US 01/31813	International filing date (day-month-year) 09:10; 2001
Applicant	
CALIFORNIA INSTITUTE OF TECHNOLOGY	
	Court Doort has been suitablished and a transmitted becount

1.	<u>X</u>	The applicant is hereby notified that the International Search Report has been established and is transmitted herewith.
		Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):
		When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.
		Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41-22) 740.14.35
		For more detailed instructions, see the notes on the accompanying sheet.
2		The applicant is hereby notified that no. International Search Report will be established and that the ideclaration under Article 17(2)(a) to that effect is transmitted herewith.
3.		With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
		the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
		no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.
4.	Furt	her action(s): The applicant is reminded of the following:
	If the	tly after 18 months from the priority date, the international application will be published by the International Bureau, he applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the ority claim, must reach the International Bureau as provided in Rules 90 <i>bis</i> , 1 and 90 <i>bis</i> 3, respectively, before the impletion of the technical preparations for international publication.
	With wis	in 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant thes to postpone the entry into the national phase until 30 months from the priority date on some Offices even laters
	50	in 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase fore all designated Offices which have not been elected in the demand or in a later election within 19 months from the crity date or could not be elected because they are not bound by Chapter II.

Name and making address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2

NL-2280 HV Rhswik
Tet +31-70 340 2040, Tk 31 651 epoint.
Fax +31-70 340-3016

Authorized officer

Federico Bonomelli

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after naving received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

The letter must indicate the differences between the claims as filed and the claims as amended, it must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped) whether

- iii the claim is unchanged;
- (iii) the plaim is cancelled;
- /iii) the claim is new:
- (iv) the claim replaces one or more claims as filed,
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- (Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims):
 - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added," or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17, new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English

it should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT IPEA.401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated elected Offices, instead of, or in addition to, the translation of the c'aims as filed.

For further details on the requirements of each designated elected Office, see Volume II of the PCT Applicant's Guide

PATENT COOPERATION TREATY

PCT



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 121744/0014	FOR FURTHER see Notification of Form PCT ISA2	f Transmittal of international Search Report 20) as well as, where applicable, item 5 below
International application No.	international filing date (day-month-year)	(Earliest) Priority Date (day month-year)
	20.10.2001	
PCT/US 01/31813	09/10/2001	10/10/2000
CALIFORNIA INSTITUTE OF TE	ECHNOLOGY	
according to Article 18. A copy is being tra This International Search Report consists		
	nternational search was carried out on the bas ess otherwise indicated under this item.	is of the international application in the
Authority (Rule 23.1(b)).	as carried out on the basis of a translation of th	
 b. With regard to any nucleotide and was carried out on the basis of the 		ternational application, the international search
	nal application in written form.	
filed together with the inter	rnational application in computer readable form	5 .
furnished subsequently to	this Authority in written form.	
furnished subsequently to	this Authority in computer readble form	
the statement that the sub	sequently furnished written sequence listing do s filed has been furnished.	pes not go beyond the disclosure in the
the statement that the info furnished	rmation recorded in computer readable form is	identical to the written sequence listing has been
2. Certain claims were four	nd unsearchable (See Box I).	
3. Unity of invention is lack		
<u> </u>		
4. With regard to the title,		
T the text is approved as sub	omitted by the applicant.	
the text has been establish	ned by this Authority to read as follows:	
5. With regard to the abstract , the text is approved as sub- the text has been establish within one month from the	omitted by the applicant. ned, according to Rule 38.2(b), by this Authorit date of mailing of this international search rep	y as it appears in Box III. The applicant may, ort, submit comments to this Authority.
		2a
		None of the figures
as suggested by the applic X because the applicant fails		
· · · · · · · · · · · · · · · · · · ·		
because this figure better	characterizes the invention	

PCT/uS 01/31813

INTERNATIONAL SEARCH REPORT

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inter	national Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
,	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
	Ctaims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Interi	national Searching Authority found multiple inventions in this international application, as follows:
	see additional sheet
1. X	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is estricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark o	The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-44

A power amplifier comprising: the two gain blocks of each push-pull amplifier are interconnected at the positive terminals of their respective output ports by an inductive path.

2. Claims: 45-52

A low loss inductor for deposition on a substrate.

H03F3/60

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 H03F H01F H01P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Α	US 4 283 685 A (MACMASTER GEORGE H ET AL) 11 August 1981 (1981-08-11) column 11, line 61 -column 12, line 37; figures 14,15	1-43
A	US 5 920 240 A (ALEXANIAN ANGELOS ET AL) 6 July 1999 (1999-07-06)	
X	US 5 130 664 A (PAVLIC JOHN C ET AL) 14 July 1992 (1992-07-14) figure 3	44
X	US 6 121 842 A (ZAITLIN MARK P ET AL) 19 September 2000 (2000-09-19) figures 2A,3B	44
	-/	

Y Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents 'A' document defining the general state of the lart which is not considered to be of particular refevance 'E' earlier document but published on or after the international filing date.	*T* later document published after the international filing date or pnority date and not in conflict with the application but cited to understand the principle or theory underlying the invention. *X* document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to
 L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document reterring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filling date but later than the priority date claimed 	involve an inventive step when the document is taken alone 'Y' document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu- ments, such combination being obvious to a person skilled in the art '&' document member of the same patent family
Date of the actual completion of the international search 6. June. 2003	Date of mailing of the international search report $1 / 6 / 0 3$
Name and mailing address of the ISA European Patent Office IP B 5818 Patentlaan 2 NL = 2280 HV Rijswijk Tel ++31=701340=2040, Tx 31 651 epo nl. Fax ++31=701340=3016	Authorized officer Segaent, P

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	EP 0 556 398 A (ANRITSU CORP) 25 August 1993 (1993-08-25) figures 17,19B DE 12 76 764 B (DEUTSCHES POST RUNDFUNK UND FE) 5 September 1968 (1968-09-05) figures 1,3 FR 1 413 073 A (PORTENSEIGNE ETS MARCEL) 8 October 1965 (1965-10-08) figure 1A US 5 223 800 A (KARSTEN JR KENNETH S ET AL) 29 June 1993 (1993-06-29) figure 2 ROBERTSON I D ET AL: "SOLID STATE POWER AMPLIFIER USING IMPEDANCE-TRANSFORMING BRANCH-LINE COUPLERS FOR L-BAND SATELLITE SYSTEMS" PROCEEDINGS OF THE 23RD. EUROPEAN MICROWAVE CONFERENCE. MADRID, SEPT. 6 - 9, 1993, PROCEEDINGS OF THE EUROPEAN MICROWAVE CONFERENCE, TUNBRIDGE WELLS, REED EXHIBITION COMPANY, GB, 6 September 1993 (1993-09-06), pages 448-450, XP000629961 ISBN: 0-946821-23-2 figures 1,3 US 4 305 043 A (HO PANG T ET AL) 8 December 1981 (1981-12-08) figure 6 EP 0 379 202 A (FUJITSU LTD)	EP 0 556 398 A (ANRITSU CORP) 25 August 1993 (1993-08-25) figures 17,19B DE 12 76 764 B (DEUTSCHES POST RUNDFUNK UND FE) 5 September 1968 (1968-09-05) figures 1,3 FR 1 413 073 A (PORTENSEIGNE ETS MARCEL)	
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		8 December 1981 (1981-12-08)	47

From P. CSA Ct. Continual on it second sheet (SUIV 1990)

	ent document in search report		Publication date		Patent family member(s)		Publication date
US 4	4283685	Α	11-08-1981	NONE			
US!	5920240	Α	06-07-1999	US	5736908	4	07-04-1998
US!	5130664	Α	14-07-1992	NONE			
US (6121842	Α	19-09-2000	NONE			
EP (0556398	А	25-08-1993	JP DE DE EP US WO	4302501 A 69222750 E 69222750 N 0556398 A 5307032 A 9217912 A	01 72 A1	26-10-1992 20-11-1997 20-05-1998 25-08-1993 26-04-1994 15-10-1992
DE :	1276764	В	05-09-1968	NONE			
FR :	1413073	Α	08-10-1965	NONE			
US S	5223800	Α	29-06-1993	US	5144257	4	01-09-1992
US 4	4305043	Α	08-12-1981	NONE			
EP (0379202	Α	25-07-1990	JP DE EP US	2190003 / 69023518 [0379202 / 5107223 /)1 A2	26-07-1990 21-12-1995 25-07-1990 21-04-1992